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IMPACT DRILL 1200W
POWX028

1 APPLICATION

The power tool is intended for driving and drilling through wood, metal, plastics and masonry. It is not designed for commercial use.

WARNING! Please read and understand this operating manual before use and keep it for your future reference. Your power tool should only be passed on with these instructions.

2 DESCRIPTION (FIG. A)

1. Metal keyless chuck with auto lock
2. Depth stop
3. Additional handle
4. Selector button; drill/hammer
5. 1st gear / 2nd gear selector switch
6. Selector button: Clockwise/anti-clockwise
7. Speed control
8. Locking button
9. On/Off switch

3 PACKAGE CONTENT LIST

- Remove all packing materials.
- Remove remaining packaging and transit supports (if existing).
- Check the completeness of the packing content.
- Check the appliance, the power cord, the power plug and all accessories for transportation damages.
- Keep the packaging materials as far as possible till the end of the warranty period. Dispose it into your local waste disposal system afterwards.

WARNING Packing materials are no toys! Children must not play with plastic bags! Danger of suffocation!

1 x impact drill
1 x depth stop
1 x additional handle
1 x manual

When parts are missing or damaged, please contact your dealer.

4 SYMBOLS

The following symbols are used in this manual and/or on the machine:

	Denotes risk of personal injury or damage to the tool.		In accordance with essential requirements of the European directive(s).
	Read manual before use.		"Class II - The machine is double insulated; Earthing wire is therefore not necessary.

5 GENERAL POWER TOOL SAFETY WARNINGS

Read all safety warnings and all instructions. Failure to follow all warnings and instructions may result in electric shock, fire and/or serious injury. Save all warnings and instructions for future reference. The term "power tool" in the warnings refers to your mains operated (corded) power tool or battery operated (cordless) power tool.

5.1 Work area

- Keep work area clean and well lit. Cluttered and dark areas invite accidents.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

5.2 Electrical safety

Always check that the power supply corresponds to the voltage on the rating plate.

- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
- If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.

5.3 Personal safety

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- Use safety equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used whenever conditions require will reduce personal injuries.
- Avoid accidental starting. Ensure the switch is in the off position before plugging in. Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.
- Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.

- If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of these devices can reduce dust related hazards.

5.4 Power tool use and care

- Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- Maintain power tools. Check for misalignment or sticking of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to stick and are easier to control.
- Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from intended could lead to a hazardous situation.

5.5 Service

- Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

6 ADDITIONAL SAFETY-HINTS FOR IMPACT-DRILL:

- Do not use near steams or inflammable liquids.
- Only use sharp bits and suitable screwing bits.
- Remove the plug from the socket for all adjusting and cleaning work.
- Protect the mains cable against any damage. Oil and acids can damage the cable.
- Do not carry the device by the mains cable.
- Do not remove the plug from the socket by puffing the mains cable.
- Make sure before inserting the plug that the operating switch is not locked.
- When using a cable drum uncoil the cable completely. Cross-section of wire at least 1,5 mm2.
- Do not overload machine.
- Secure all work pieces to be processed sufficiently.
- Do not allow children to have access,
- Make sure you have a secure stand on ladders or scaffolding when using the drill freehand.
- Localize lines with a line detector in walls where power, water or gas lines are laid invisibly.
- Wear protection goggles and use a dust mask for dust-producing work.
- Always arrange for a qualified electrician to carry out repairs
- Use only original replacement parts
- The level of noise at the workplace may exceed 85 dB (A). In this case you will need to introduce noise protection measures for the user. The noise generated by this electric tool was measured in accordance with EN 50114-1.

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Always use ear-protection, when machine is in use!

Recommended nominal operating-time: approx. 20 minutes under permanent load.

Rest after permanent operation: approx. 5-10 minutes.

7 OPERATION

WARNING: Prior to assembly and adjustment always pull out the power plug from the mains socket.

7.1 Switching on/off (Fig. 1)

- Plug the cord set into power socket.
- Start the tool by squeezing the ON/OFF switch (9).
- Release the ON/OFF switch to stop the tool.
- If you press the lock-on button (8) while the ON/OFF switch is depressed, the ON/OFF switch is kept in the operating position.
- To release the ON/OFF switch (9) and turn the tool off.

7.2 Forward/reverse lever (Fig. 2)

- The forward/reverse lever (6) is to determine the rotation direction of the chuck.
- To select forward rotation, release the ON/OFF switch (9) and push the forward/reverse lever to right (R) side of the tool. To select reverse rotation, push the lever to left (L) side of the tool.

NOTE: When changing the position of the lever, be sure the ON/OFF switch is released and the motor is stationary.

7.3 Variable speed (Fig. 3)

This tool has a speed control dial (7) that delivers higher speed by turning to the "**+**" direction, and delivers lower speed by turning to "**-**"direction.

7.4 Two-speed selector (Fig. 4)

- Mark "1"is Low speed position
- Mark "2" is High speed position.

The drill has a two-speed gear train designed for drilling at (1) or (2) speed. A gear selector is located on the left of the drill to select either low or high speed. When you select low speed range, the speed will decrease but will provide more power and torque. When using drill in the high speed range, speed will increase but will provide less power and torque. Use low speed for high power and torque application and high speed for fast drilling applications.

NEVER adjust this two-speed selector (5) whilst the drill is running. Always let it come to a complete stop first.

7.5 Drill or impact mode selector (Fig. 5)

The drill and impact mode selector is on the top of this impact drill.

- Push the button of drill /impact mode selector (4) to the "T" to select the impact mode of action.

- Push the button of drill/impact mode selector to the drill position "" to select the drill mode of action.

7.6 For proper operations

- Hold the drill with your first two fingers on the ON/OFF switch (9).
- Use the auxiliary handle subassembly (3) where possible to gain extra control and to prevent fatigue.
- For wood, use twist drill bits, spade bits power auger bits, or hole saw.
- For metal use high seed steel twist drill bits or hole saws.
- For masonry, such as brick, cinder block, cemetery, etc, use carbide tipped drill bits.
- Use enough pressure to keep the bit biting but do not push so hard that do not stall the motor or damage the bit.
- Always apply pressure in a straight line with the bit.
- Hold the drill firmly to control the twisting of the drill.

Warning：If the drill stalls, release the trigger immediately, remove the drill from the work and determine the cause of the stalling. Do not click the switch on and off as this can damage the motor.

- To minimize the chance of stalling and breaking through the material, reduce the pressure on the drill and ease the bit through the last part of the hole.
- Keep the motor running when pulling the bit back out of a drilled hole. This will help prevent jamming.

8 MAINTENANCE

Do not attempt to make any adjustments while the tool is in operation.
Clean out any accumulated dust with a brush or dry cloth.
Do not allow petroleum-based products to come into contact with plastic parts as they contain chemicals, which could damage, weaken or destroy plastic.

9 TECHNICAL DATA

Mains voltage	230-240V ~ 50Hz
Power input	1200W
No load speed	0-1200 / 0-3000 min^{-1}
Chuck capacity	13mm
Double isolation	Yes
Impact rate	0-48000 min^{-1}
Max. drill capacity	
Wood	40 mm
Steel	16 mm
Concrete	16 mm

10 NOISE

Noise emission values measured according to relevant standard. (K=3)

Acoustic pressure level LpA	96 dB(A)
Acoustic power level LwA	107 dB(A)

ATTENTION! Wear hearing protection when sound pressure is over 85 dB(A).

aw (Vibration)	16,6 m/s^2	K = 1,5 m/s^2

11 WARRANTY

- This product is warranted for a 36-month period effective from the date of purchase by the first user.
- This warranty covers all material or production flaws excluding : batteries, chargers, defective parts subject to normal wear & tear such as bearings, brushes, cables, and plugs, or accessories such as drills, drill bits, saw blades, etc. ; damage or defects resulting from maltreatment, accidents or alterations; nor the cost of transportation.
- Damage and/or defects resulting from inappropriate use also do not fall under the warranty provisions.
- We also disclaim all liability for any bodily injury resulting from inappropriate use of the tool.
- Repairs may only be carried out by an authorised customer service centre for Powerplus tools.
- You can always obtain more information at the number 00 32 3 292 92 90.
- Any transportation costs shall always be borne by the customer, unless agreed otherwise in writing.
- At the same time, no claim can be made on the warranty if the damage of the device is the result of negligent maintenance or overload.
- Definitely excluded from the warranty is damage resulting from fluid permeation, excessive dust penetration, intentional damage (on purpose or by gross carelessness), inappropriate usage (use for purposes for which the device is not suitable), incompetent usage (e.g. not following the instructions given in the manual), inexpert assembly, lightning strike, erroneus net voltage. This list is not exhaustive.
- Acceptance of claims under warranty can never lead to the prolongation of the warranty period nor commencement of a new warranty period in case of a device replacement.
- Devices or parts which are replaced under the warranty therefore remain the property of Varo NV.

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- We reserve the right to reject a claim whenever the purchase cannot be verified or when it is clear that the product has not been properly maintained. (Clean ventilation slots, carbon brushes serviced regularly, etc.).
- Your purchase receipt must be kept as proof of date of purchase.
- Your appliance must be returned undismantled to your dealer in an acceptably clean state, (in its original blow-moulded case if applicable to the unit), accompanied by proof of purchase.

12 ENVIRONMENT

Should your appliance need replacement after extended use, do not discard it with the household rubbish but dispose of it in an environmentally safe way. Waste produced by electrical machine items should not be handled like normal household rubbish. Please recycle where recycle facilities exist. Check with your Local Authority or retailer for recycling advice.

13 DECLARATION OF CONFORMITY

CE

VARO N.V. - Joseph Van Instraat 9 - BE2500 Lier - BELGIUM, declares that,
Product: Impact Drill
Trade mark: PowerPlus
Model: POWX028

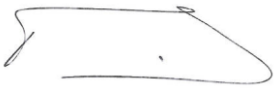
is in conformity with the essential requirements and other relevant provisions of the applicable European Directives, based on the application of European harmonized standards. Any unauthorized modification of the apparatus voids this declaration.

European Directives (including, if applicable, their amendments up to the date of signature);
2011/65/EU
2004/108/EC
2006/42/EC

European harmonized standards (including, if applicable, their amendments up to the date of signature);
EN60745-1 : 2009
EN60745-2-1 : 2010
EN55014-1 : 2006
EN55014-2 : 1997
EN61000-3-2 : 2006
EN61000-3-3 : 2008

Keeper of the Technical Documentation : Philippe Vankerkhove, VARO – Vic. Van Rompuy N.V.

The undersigned acts on behalf of the company CEO,,



Philippe Vankerkhove
Regulatory Affairs – Compliance Manager
Date: 31/01/2013

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